

Space Science Seminar
Distinguished Lecture
Tuesday, 2016 November 8
10:30 a.m.
NSSTC/4078

**Magnetic Reconnection in Space and
Astrophysical Plasmas**

Dr. W.D. Gonzalez / National Institute for Space Research (INPE), Sao Jose dos
Campos, SP, Brazil

Host: Dr. James Spann (Sponsored by ZP01)

This talk will deal with research highlights on magnetic reconnection (MR), as related mainly with magnetospheric physics, and with its role in the understanding of geomagnetic storms. This research has grown extensively due to dedicated observations from major satellite missions such as Cluster, Double Star, Themis, and most recently MMS. The accumulated observations from these missions are being supplemented by similar theoretical and modelling efforts. Thus, after some key historical considerations, this talk will concentrate on collisionless reconnection as applied mainly to the terrestrial magnetosphere.

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